

DIALOG(R) File 351:Derwent
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Hydraulic coupling - has retardation chamber feed channel aperture
located at periphery of impeller and equipped with deflector

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Number of Countries: 004 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 427589	A	19910515	EP 90403034	A	19901026	199120 B
FR 2653843	A	19910503				199130

Priority Applications (No Type Date): FR 8914039 A 19891026

Cited Patents: DE 3522174; FR 1545621; FR 2087138; US 3955368

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 427589	A			

Designated States (Regional): DE GB IT

Abstract (Basic): EP 427589 A

A hydraulic coupling consists of a housing (10) containing an impeller (16A) and a turbine (16B) forming a working fluid circuit (15) which is also linked to a retardation chamber (20) to limit the amount of fluid in the circuit during starting. The retardation chamber is connected to the fluid circuit is via feed (21) and return (22) channels. The aperture (25) leading to the retardation chamber feed channel in the fluid circuit is located at the periphery of the impeller and is equipped with a adjustable deflector (26) which extends between two of the impeller's vanes and rotates with it.

The feed channel also has a controlled valve (32), situated in a pipe section outside the coupling housing.

ADVANTAGE - Reduced load on starting. (7pp Dwg.No.1/3)

Title Terms: HYDRAULIC; COUPLE; RETARD; CHAMBER; FEED; CHANNEL; APERTURE;
LOCATE; PERIPHERAL; IMPEL; EQUIP; DEFLECT

Derwent Class: Q63

International Patent Class (Additional): F16D-033/10

File Segment: EngPI

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